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NOTICE OF ALLOWANCE AND FEE(S) DUE

28624

7590

12/22/2008

WEYERHAEUSER COMPANY INTELLECTUAL PROPERTY DEPT., CH 1J27 P.O. BOX 9777 FEDERAL WAY, WA 98063

EXAMINER				
CORDRAY, DENNIS R				
ART UNIT	PAPER NUMBER			

1791 DATE MAILED: 12/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,143	03/31/2004	Angel Stoyanov	WEYE121925/25324	8224

TITLE OF INVENTION: BLEACHED POLYACRYLIC ACID CROSSLINKED CELLULOSIC FIBERS

APPLN. TYI	E SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisio	nal NO	\$1510	\$300	\$0	\$1810	03/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees w pondence address;	ill be i and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Feet	c) Transmittal Thi	s certifi	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
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INTELLECTUA P.O. BOX 9777	USER COMPANY AL PROPERTY DE		I he State addr trans	reby certify that thi es Postal Service w essed to the Mail smitted to the USP	is Fee(s ith suff Stop : ΓΟ (57:	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the date	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
FEDERAL WA	Y, WA 98063						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/815,143	03/31/2004	•	Angel Stoyanov	•	WE	YE121925/25324	8224
TITLE OF INVENTION	I: BLEACHED POLYAC	CRYLIC ACID CROSSL	INKED CELLULOSIC FI	BERS			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/23/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
CORDRAY	, DENNIS R	1791	162-009000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,				
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	THE PATENT (print or type data will appear on the part of the part	ntent. If an assignerassignment.			ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent) : \Box	Individual 🖵 Co	rporati	on or other private gro	up entity 🗖 Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Plea	se first reapply an	y prev	iously paid issue fee s	shown above)
Issue Fee	T 11 12	200 - 15	A check is enclosed.				
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies		Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
			overpayment, to Depo	sit Account Numbe	r	(enclose ar	extra copy of this form).
5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY statu	· ·	☐ b. Applicant is no long	ran alaimina SMAI	I ENT	FITY status See 27 CE	ED 1.27(a)(2)
••			d from anyone other than the				
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.	··FF ··- · · · · · · · · · · · ·			- ··8 · · · · · · · · · · · · ·
Authorized Signature				Date			
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an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 dapplication form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	on is required to obtain or r 1.14. This collection is est 7 depending upon the indiv 8 Chief Information Office COMPLETED FORMS TO	imated to take 12 n idual case. Any co cr. U.S. Patent and '	ninutes mment Tradem	to complete, including s on the amount of time park Office, U.S. Depa	g gathering, preparing, and ne you require to complete atment of Commerce, P.O.

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10/815,143	03/31/2004	Angel Stoyanov	WEYE121925/25324	8224	
28624 75	90 12/22/2008		EXAM	INER	
WEYERHAEUS	ER COMPANY		CORDRAY,	DENNIS R	
	PROPERTY DEPT., C	CH 1J27	ART UNIT	PAPER NUMBER	
P.O. BOX 9777 FEDERAL WAY, WA 98063			1791 DATE MAILED: 12/22/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 34 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 34 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/815,143	STOYANOV ET AL.
Notice of Allowability	Examiner	Art Unit
	DENNIS CORDRAY	1791
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this applied or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the communication fil</u>	ed 9/12/2008.	
2. The allowed claim(s) is/are 1,5,7 and 10-13.		
 Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. § 119(a)-(d) or (f).	
 Certified copies of the priority documents have 	e been received.	
2. Certified copies of the priority documents have	been received in Application No	·
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) hereto or 2) to Paper No./Mail Date	•	,
(b) ☐ including changes required by the attached Examiner's		Office action of
Paper No./Mail Date	o, anonamone, commone or in the c	since denoting in
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	5 Notice of Informal D	letent Application
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	5. Notice of Informal P	
2. I Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	te .
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amendr	ment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
/Dennis Cordray/		
Examiner, Art Unit 1791		
	1	

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in telephone interviews

with George Renzoni between 12/11/2008 and 12/12/2008.

The application has been amended as follows:

In line 2 of Claim 1, after the word "peroxide" and before the comma, the word

-- alone-- has been inserted.

In line 2 of Claim 5, after the word "peroxide" and before the word "into", the word

-- alone-- has been inserted.

In line 1 of Claim 7, the number "6" has been deleted and the number --5--

inserted therefor.

In line 4 of Claim 10, after the word "peroxide" and before the comma, the word

-- alone-- has been inserted.

The following is an examiner's statement of reasons for allowance: the nearest prior art, Dean et al, teaches post-crosslink bleaching processes performed in an alkaline environment, such as chlorine dioxide-caustic extraction-peroxide sequences. Other prior art, Cook et al, teaches polycarboxylic acid crosslinked fibers subsequently treated with an aqueous solution of sodium hydroxide (NaOH) and hydrogen peroxide (H_2O_2). It is known in the art that bleaching natural fibers with H_2O_2 generally requires activation of the peroxide via the use of alkali, sulfuric acid, hypochlorite or other organic activators, with alkali (e.g.- NaOH) being the most preferred. Treatment with H_2O_2 alone is not disclosed in the cited prior art and would not have been obvious to one of ordinary skill in the art due to the need for activation. In addition, the data provided in the instant application showed significantly larger increases in Whiteness Index (WI) over the claimed time period for fibers contacted with H_2O_2 only versus those bleached with the usual H_2O_2 -NaOH combination.

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DENNIS CORDRAY whose telephone number is (571)272-8244. The examiner can normally be reached on M - F, 7:30 -4:00 PM.

Application/Control Number: 10/815,143 Page 4

Art Unit: 1791

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dennis Cordray/ Examiner, Art Unit 1791

/Eric Hug/ Primary Examiner, Art Unit 1791